



RECEIVED

08/852495

AUG 13 1998 SEQUENCE LISTING

(1) GENERAL INFORMATION: SERVICE CENTER

(i) APPLICANT: Ruddy, David A.
Wolff, Roger K.

(ii) TITLE OF INVENTION: POLYMORPHISMS IN THE REGION OF THE HUMAN
HEMOCHROMATOSIS GENE

(iii) NUMBER OF SEQUENCES: 24

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Pennie & Edmonds, LLP
(B) STREET: 1155 Avenue of the Americas
(C) CITY: New York
(D) STATE: NY
(E) COUNTRY: USA
(F) ZIP: 10036-2811

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: Windows
(D) SOFTWARE: FastSEQ for Windows Version 2.0b

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 08/852,495
(B) FILING DATE: 07-MAY-1997
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER:
(B) FILING DATE:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Poissant, Brian M
(B) REGISTRATION NUMBER: 28,462
(C) REFERENCE/DOCKET NUMBER: 8907-0057-999

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 650-493-4935
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(C) TELEX: 66141 PENNIE

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 235033 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CACACACACA CACACACACA CACACACACA CACACAAATG AGGTATATAA AGGGTCTCCT	60
AAAATGTCAT CTGATATTTG TTATTCATA TTCTCAGATT TTTAATCCAT TTAGGTAGGT	120
CTATTTAGA TAGCCTTGTC TGAAACAGAG CTGGGACCTG ATGAGTGAAA ATGAGCTCAC	180

CAGAAGAAAA	ATCAAACAGG	CATTCAGAG	ATTGAGGCCA	AGAAGTTAAA	TGTCTTAAAT	240
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ACAGCAGAACG	AGGTGAACAG	AGGCCAGAGA	TGGTCACTGA	GTGGGCCCTT	AAGTCATGGT	360
AAGGAGTATG	GAGAATGAAT	TATTGCATGT	ATTGAATATG	TAGGTGACGT	GACTCACAGA	420
TACTTTGGAT	TTGTAGAGAT	GAAGGAAATG	TAGCAAGTGA	CACTCTAGA	ATGTTGATT	480
GAGTAAATGG	TAGTGTCACT	TATTGAACGT	GGGAGAACTG	GAAGGGATAA	CAGGCTTAAG	540
GAGCACGTT	ATTCCTGTGT	CTTGGAAAGTG	TTTAGGGTGA	AAGACCTATT	AGAGTTCTAA	600
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TGGAGATGTA	AAATTGGAAG	TTTACTGCAT	ATAGATAGTC	TTTGGAAACCG	TAGTATTGAT	720
GAAGCCATTA	ATGAGACAGA	ACAAAGACTA	GGGACCAGAG	CCAAGCTCCA	AGTTTCTAAA	780
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CCAGAAAATG	ACTATGCTGG	CAACTTGGAT	CTTAGATTTC	CAGCCTGCAG	AATTGTTAGA	1020
AAATAAAATGT	CTATCGTTA	AGCCACCACT	CTGTAGTATT	TTGTTATGGC	AGTCCAAGCT	1080
GACTAAGTT	TGGTACCCAG	CGCTGGGATG	CTGCAACAAAC	AAATACCTAA	ACATGGGGAA	1140
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CGATCATGGA	TAGAATATTA	AATATGCTGG	TTAAAATATG	GACTTAGGC	CAGGCGTGGT	1380
GGCTCACGCC	TGTAATCTCA	GCACTTGGG	AGGCTGAGGG	CACAGATCAC	GAGGTCGGGA	1440
GTTTGAGACC	AGCCTGGCCA	ATATGGGAA	ACCTGTCTC	TACTAAAAT	ACAAAAATT	1500
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CGCTTAAACC	CGGGGGGTGG	AGGTTGCAGT	GACCCAAGAT	CACACCACTG	CACTCCAGCC	1620
TGGGATACAG	AGCAGGACTC	CACTCCCCCC	GCCACACACA	CACAAAAAAT	ATATATATAT	1680
GGACATTAAGA	GTCAACTCTT	GTGAGGTCTC	AGATGAAAAT	GAGGGACAGG	TTATTGGAAA	1740
CTGTAGAAAT	CACTGTTCTT	GTTACAATGT	GTCAAGAACT	TGGCTGAATT	ACGCTGTAGT	1800
GTTTACTGGA	AAGAACTTAT	AAGCAGTAAA	ACTGGATATT	TACCAGAAGA	GATGTCTAAG	1860
CAAAGTATTG	AAGGTGTGAT	TTAGGTCTC	CTTACTGCTT	AAAGTGAAAT	GTGAGAGGAA	1920
AGAGCCGAAA	TAAAGAAGGA	ATTTTAAGC	AAAACACAAT	CAGAACTTGG	AGATTGGGA	1980
TAGATTCTC	AATCTATATT	GTAAAATTG	AGAAAGTTT	TCTTGAAGAG	GTATGGTTGA	2040
ACAATGTTT	CTTTTCTTT	TTTTTCTTG	TTTTTATT	TATTTTATG	TTTTTGAGA	2100
CAGGGTCTGG	CTATGTCATC	CAGGCTGGAG	TGCACTGGCA	CAATCTCAGT	TCAGTGCAAC	2160
CTTGCCTTC	AGGCTCAAGC	AATCCTCCA	CCTCAGCCTC	CTAAGTAGCT	GGGACTACAT	2220

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AGATGACACT	TTGAAC	TTA	GAATTGATG	TAGAATGAGT	TAAGACTT	CCCCGGCTGT		3540
TGGGATGGAA	TAATTTTTT	TTTTTTTG	AGACGGAGTC	TAGCTCTGTC	GCCCAGGCTG			3600
GAGTGCAGTG	GCACCAC	TT	GGCTCACTGC	AA	AGCTCTGCC	TCCCAGGTT	ATGCCATT	3660
CATGTCTCAG	CCTCCAGAGT	AGCTGGACT	ACAGGCGCCC	GCCACCACGC	CTGGCTAATT			3720
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GAGCTCTCTC	TCCACGCAGG	CACCAAGGAA	ACACCATA	AA	CACACAGT	GAGATGGCAG		4140
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CATCCAATGA AGTTCTGACA TTTCTCAAC ATGAGTACAG TAATTCAATG CCAGAGAATT	4560
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CAAACGTCCA GTGAAATTG GATTTTGGAA ATATAGTTTC TTTTTCTTG TTACTTTTG	6060
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GTTGGCCAGG	CTGGTCTCAA	ACTCCTGACC	TCAGGTGATC	TACCCACCTC	AGCCTCCCCA	6480
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CCCCAAAAAC	CGAAAAGCAG	TAATACGCTT	TGCTCAAGGT	TGGCATAAAA	TTAACTTACC	9480
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AAATCACTTG	CCCTTGGCCT	TGTGGTACT	CTCGGTCTTC	TTAGGCAGAA	GCACGGCCTG	9660
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GTGCACTCGG	CCCACCGGG	ACTGGAGACC	AGCGCGAGAA	GAGCGGGATT	TCGCTTTGGC	9960
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TGCCCGGTA	ATAGTCTTT	AACCTAATAT	GCGTCAGTTT	TGATAACAAAC	ACTAAGGCAG	11340
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ACAAC TGCAAG	GCCGCTTGT	GGCCTGGAA	ATTCCACATT	CCCTTAAGTA	TTTTACTCAT	11760
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(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 237326 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

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TGTCCCTGTC ACAAAAGTGG ATAGCCTAAG TGGTGACTTT TACCTCCACT CCAAATATAT 231900
GTATCACACA CCAGCCGTAT GCCAGGCACC ACTCTAGGTG CTAGGGATAC AGCAGTAAAC 231960
AGACAAATGC AACCCCTGCC CATGTGAAAG AGAATAAGAC AATAAATAAG TAAAGTGCAT 232020
GTTATATGGA GGTGGCAAAT GCTAAAAAGA AAAATTAAGC AGGCAAGAGG ACTCATTGAA 232080
AAGATGACAT TTGGGTAAGA GCCCATGTAT ATATGTTCTA TTGGTTTAT TTCTCTGGAG 232140
AGCCCTGACT AATACACAAT GACTTGAGA AGTTACTGGC TTTGATTAA TCACACTATT 232200
CGGAGTGCTG AGAGCCTTCT TAGTGTGTAT TCAGTGTGTT AAGAGAGCTT GTGGATGAAT 232260
AATAAATAGG ACAAAATTAA TCCAAACTTA AGCCTTGCTT TAGGTAAAAG GGCTCCTCTT 232320
ACAAGGTAGA AGGTTATTAT TTGACATTAA AATCCAAC TG AAGACTAATA AGACTAATTA 232380
ATTAAAAGTT TTTAAATCAC AACTGCGTGC AAAATAAATG GAACTGCCAT GCTCGCCAAG 232440
TGTGCATGAG TGGTGTGCAT GGGAGACAGC ACGAAGCTAA TCCCACTCAT CTTGCAGGTT 232500
GCTCCATTAA TCTCCTAAAA TCAGTAAGAC AGAAGCTGGT CAGATTATCA AGAGCCCTAG 232560
TTAACACACAG CAGTAGCATT TGGAAAGGGGT TGCTCTCATT AGGCAGTGCC TGACCACAAAC 232620
AAGAGATGAA CAAGCCCTGT ATCTGAAGCC ATCATGCCTA GTTATGGTCC CCGACTGTT 232680
ATGATGCCCTG GAAGGGAGGC CCCCTGCACC CTAGAAAGCT GGGTGGGTTG TACTGTCTGC 232740
TTTACTGCTA AAAACCCCTCT TCTTGGATC TGGACTTTAC CTCTATCTGA TTTTTTTTTC 232800
TAATATATGA TTTGGCACTG AGTCTGTCAC TGCTGCTAAC TCAGCAGTTC TAGGGTCATT 232860
GCCCCATTGC CTCACAGAAA GAATTCATA GCTTCCAGCA TCCTCTCTCC TTCATTATAC 232920
TTTGATTCA GCATTGCTAT TTTTCTCTT GGGTGGTGC GCTCTCTCTC TCCTTCCCAT 232980
GTCTTGGTGG TTTTCTGCTA ACTCCTGCTT TTTTCTTTT TTTTTTTTG AGACGGAGTC 233040
TCGTTCTGTC ACCCAGGCTG GAGTGCAGTG GCACAATCTC GGCTCACTGC AACCTCCGCC 233100
TCCCAGGTTTC AAGCTATTCT CCTGCCTCAG CCTCCCAAGT AGCTGGACT ACAGGCCTC 233160
ACCACTATGC CCCACTAATT TTTGTATTTT TAGTATTGCT GTCATCAATC CACATGTCCA 233220
GAAGCACCTA GAAACTCTAA TTCTTTGTAG GTATCAAACC CTAGGACTCT TTCCCTCTAAT 233280
CACAAATATAT AATCCCTGAT TCCCAAACAC GGTCTTTCA TATACATTAA CCACTGTACA 233340
TACTTCTGA CCTGGAAAGC TCTTACACAA ACACGCCCTC CCCTAGGAAG CCTTTATAAA 233400
TGTTCCCAGG AAGAATCAGT CACCCAAACAG TGTCCTTGTC ACATCTTAGG TTCTACACCT 233460
TTATTTGTTT TATCTGAATG TAATCTCCCA GAGGGTGTAA TCATCTTTT TTTTGAGATG 233520
GAGTCTTGCT TTGCTGCCA GGCTGGAGTG CAGTGGCATG ATCTCGGCTC ACAGCAACCT 233580
CCACCTCCTG GGTTCAAGTG ATTCTCCTGC CTCAGCCTCC TGAGTAGCTG GGATTACAGA 233640
CGTGTGTACAC CACACCTGGC TAATTTTGT ATTTTTAGTA GAGACAGGGT TTCACCGTGT 233700
TGGCAAGGCT TTCCTCGAAC TCCCAAACTC AGGTGATCCA CCCACCTCAG CCTCCCAAAG 233760
TGCTGGGATT ACAGGTGTGA GCCACCAGT CCAGCCCCAT CTTTTCTTT TAGTTAGTT 233820

CTTAACAAAT AGTCTGACAC AAAGTGGATA TAACAATATT TTGAATTATG AATAACTAAA 233880
TGAATATTC CAGATTCCT GGTGCTCTCA AAGTTTATG TTACAAAAGA AAAACAAGTC 233940
TAAAATACCT GCCTCAAGTT TTTATCTGTA CTATGATTTC AAACCAAATA AAAAACAGGT 234000
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AGTAAATGTA TGTTAATTAA ATTTAAAAGA AGTAGTCTAC CATCTCTTCT GTTAAAAGA 234180
AAAAAGTATT TTAAAAAATT ATCTCTGGAA GGATACACAG GGAACATTGC TCTGGTTCT 234240
TCCAAGAGAG AAATGAGGAA CTAGAGAGCA TGGCCAAGTG GGGTTTGCT TTTGTTTG 234300
TTTGTCTATC TGTTAGCTTT TTATTATTT CTTTGTAGG TTTGAATTTC AAACCACATA 234360
AATCTGTTAC ATGCTCATAA TAATAAGTTT AAAATAAAAC TTTGGCTGG GTGCAATGAC 234420
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CCTTGAGTC CAGGAGTTG AGGCTGCAGT GAGCTATAAT CACCCACTGC ACTATAGCAT 234660
GGGCAATAAG GTGAGAACTT GTCTAAAAA AAAAAGGGGG GGGGAAACA AATAAATAAA 234720
TATAACAAA ACTTTGTTT CAAAATATGT AATATTAGC ACTAAAGAAT TCTGAATTGT 234780
AGAGCTAAA AGTACTTAAA AGTTAATAAC TATTGTCTCC TTTAAAAGAA TTGTTATCAA 234840
AGTATAATT TTATCCAGAA AATCATCCAT ATCAGCAAGC TAAACTTCT CAAAATGACA 234900
TATCCATGTA ATTGCTCCC AGGTAATTAG CAGGCAGCCT CTACTCAGGT TGAGTATTCC 234960
TAATCTAAA ATTGGAAATT CAAAATGCTC CAAAATCTGC AACTTTTGA ATGCTAACAT 235020
GATTCTCAA GGAGTGCTCA TGGAGTATTT CAGATTTGG ATTTTGGAT TTGAGATACT 235080
CAGTATAATG CAAACATTCC AAATCTGAAA AAATCTGAAA TACTTCTGGT TCTAAGCATA 235140
AGGGATACTC AACGTGTGTT AGCTAATTAG ACCCTTCATG GTCTCTTCTA GACCTCAGCT 235200
TCTTCAGGT AACCTCTATC CTCACTTCTA ATAGCATGAA CTTTTCTGTT TTAGAATAAT 235260
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TCTTCACCT AGCTTCCCC CATTGTTAGG ATTTTACATT ATTATGATAC ATTTGTCAA 235380
TATAAGCAAC TCACATTGAT ACATGAAACT CTATTAACCA AACCTAGAC TTTATGTGGA 235440
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TTCTGCTTT TCATGACCTT AACAGTCCTG AAGATCATT GCTTTTTTT CATAATTACA 235620
CCGGAGTTAT AGATTTTTG AAATAATACC ACAAGGGCAA AGGGCCCTTC TTGTCACATC 235680
ATTTTAGGGA GAACATGATA TCCACATGAC ATCACTGATA TTAACCTTCA TCATGTGGTT 235740
TAGGTAATGT TTCAGGTTTC TCTACTGCAA AGTGATTTT TTCCCTTAAT TTAGCCCACC 235800
TGAACCTATC AATTTGTTT TCTTCCATGA CTAATACTTT TGTTATTATA GCTAAAACCTT 235860

CATTGGGGCC AAATCTTAGA TCATGTAAAT TTTCTTCTAT ATTTTATTCT AAAAGCTTGT 235920
AATGTTGAT ACATTCTAAA AGATGTAATG TTTGATACAT TACATCTAGT CCTTGATTT 235980
ATTTTAGTT ACTTTGTAT AAGGTGTGAG AGATGTCTCC AGTTCACTT TATTAACACA 236040
TTGTGGTGT CCAGTACTAT TTGTTGCTAA GACTATCTT TTTCCATTGA TTACCTTGC 236100
CTTAGTTGGC AATATTTTG TTGGTTTATT TCTAGACTGT TTATCTCATT CCACTGATTT 236160
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TGTCAACTTG ACTGAGTCAG GGGATAACCA GCTATCTGGT TAAACATTAT TTCTGGCTGT 236280
GTTTGTGAGC GTGTTCTGG ATGAGATTAG CCTTGATAATA GGTGATCCTA GTAAAGTAAA 236340
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CTCATCTGGT CTCCTGCTCT TGAACTGGGA TTTACATCAT CAGTCCTCT GGTTCTCAGG 236520
CCTTCAGATT CAGACTGAAT CATAACCACCA GCTTCCCTGG GTCTCCAGCT TGCAAGATTAC 236580
AGATCATGGG ACTCCTCATC TTCCATAAAAT GCATGAGCCA ATTCACTCTA TGTCTTGAA 236640
AACTGCCCA CTGCAGATTA AGGCTTTTT CCACTAGGTG AAATAAAGAA GCTTGTAGA 236700
CAGATTTCCC TTCATCCAGT GCCCTCTCCT CTTTAAGTTA CAACACATTG GCTACACCTA 236760
AGTGCAGGGG TGGGGATGAG GGTATAGTCC TCTTGTGTC TGAGAAGAGA ACTGTATTGG 236820
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AAAAAGTTAA TGAAAAACTA TAGTACCTTC CTATAAGCTG GATGACTAAT TACCAGGCTC 237120
ATTTAGGAAT TTGCTTACCA AAGTAAAACA TAAGGGCAGC TGAGGTGCTG ACTGAAGACA 237180
AATGGAGCAT AGAATAAGAG TAGTAAAGAA TGCCAAAAAT GCTGTATGT ATCCATTGAC 237240
AAAAGGAGCT ATAAAGCCTT TAGGTATTTT CACACTTGCT CTGTTACGTA AATGTATGTG 237300
TGTGTGTGTG TGTGTGTGTG TGTGTG 237326

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 20 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CGTTAGAACG CGGCTACAAT

20

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GCCGATTCA~~T~~ TAATGCAGGT

20

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

CTGTAAAACG ACGGCCAGTC

20

(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 19 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GCAGGAAACA GCTATGACC

19

(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

GCATCAGCGA TTAAC~~T~~TCTA C

21

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

TTGCATTGTG GTGAAATCAG GG

22

(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

CTGAGTAATT GTTTAAGGTG C

21

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

CTGAGTAATT GTTTAAGGTG T

21

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

AGAAGAGATA GATATGGTGG

20

(2) INFORMATION FOR SEQ ID NO:12:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

GAATGTGACC GTCCCATGAG

20

(2) INFORMATION FOR SEQ ID NO:13:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 28 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

CAACTGAATA TGCAGAAAAA AGTACACC

28

(2) INFORMATION FOR SEQ ID NO:14:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

AGTAGCTGGG ACTCACGGTG T

21

(2) INFORMATION FOR SEQ ID NO:15:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

AGTAGCTGGG ACTCACGGTG C

21

(2) INFORMATION FOR SEQ ID NO:16:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

GCGCCACCA C TCCCAGCTCA T

21

(2) INFORMATION FOR SEQ ID NO:17:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 14 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

TATATATATA TATA

14

(2) INFORMATION FOR SEQ ID NO:18:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 14 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

AAAAAAA AAAAA

14

(2) INFORMATION FOR SEQ ID NO:19:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 10 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

AGGATGGTCT

10

(2) INFORMATION FOR SEQ ID NO:20:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 12 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

TTGTTGTTGT TG

12

(2) INFORMATION FOR SEQ ID NO:21:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 14 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

CTTTTTTTTT TTTT

14

(2) INFORMATION FOR SEQ ID NO:22:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 12 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

AATAATAATA AT

12

(2) INFORMATION FOR SEQ ID NO:23:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 11 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

TTTTTTTTTT T

11

(2) INFORMATION FOR SEQ ID NO:24:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

ATATATATAT ATATATATAT

20